

## Environmental Protection Agency

## § 86.1841-01

(2) In the case of emission data, the manufacturer must determine that the previously generated emissions data represent a worst case or equivalent level of emissions for all applicable emission constituents compared to the configuration selected for emission compliance demonstration.

(b) In lieu of using newly aged hardware on an EDV as allowed under the provisions of § 86.1823-08(f)(2), a manufacturer may use similar hardware aged for an EDV previously submitted, provided that the manufacturer determines that the previously aged hardware represents a worst case or equivalent rate of deterioration for all applicable emission constituents for durability demonstration.

[64 FR 23925, May 4, 1999, as amended at 71 FR 2836, Jan. 17, 2006]

### § 86.1840-01 Special test procedures.

(a) The Administrator may, on the basis of written application by a manufacturer, prescribe test procedures, other than those set forth in this part, for any light-duty vehicle, light-duty truck, or complete heavy-duty vehicle which the Administrator determines is not susceptible to satisfactory testing by the procedures set forth in this part.

(b) If the manufacturer does not submit a written application for use of special test procedures but the Administrator determines that a light-duty vehicle, light-duty truck, or complete heavy-duty vehicle is not susceptible to satisfactory testing by the procedures set forth in this part, the Administrator shall notify the manufacturer in writing and set forth the reasons for such rejection in accordance with the provisions of § 86.1848(a)(2).

(c) Manufacturers of vehicles equipped with periodically regenerating aftertreatment devices must propose a procedure for testing and certifying such vehicles, including SFTP testing, for the review and approval of the Administrator. The manufacturer must submit its proposal before it begins any service accumulation or emission testing. The manufacturer must provide with its submittal sufficient documentation and data for the Administrator to fully evaluate the operation of the aftertreatment devices and

the proposed certification and testing procedure.

(d) The provisions of paragraph (a) and (b) of this section also apply to MDPVs.

[65 FR 59976, Oct. 6, 2000, as amended at 71 FR 51488, Aug. 30, 2006; 77 FR 34146, June 8, 2012]

### § 86.1841-01 Compliance with emission standards for the purpose of certification.

(a) Certification levels of a test vehicle will be calculated for each emission constituent applicable to the test group for both full and intermediate useful life as appropriate.

(1) If the durability demonstration procedure used by the manufacturer under the provisions of § 86.1823, § 86.1824, or § 86.1825 requires a DF to be calculated, the DF shall be applied to the official test results determined in § 86.1835-01(c) for each regulated emission constituent and for full and intermediate useful life, as appropriate, using the following procedures:

(i) For additive DF's, the DF will be added to the emission result. The sum will be rounded to the same level of precision as the standard for the constituent at full and/or intermediate useful life, as appropriate. This rounded sum is the certification level for that emission constituent and for that useful life mileage.

(ii) For multiplicative DFs, the DF will be multiplied by the emission result for each regulated constituent. The product will be rounded to the same level of precision as the standard for the constituent at full and intermediate useful life, as appropriate. This rounded product is the certification level for that emission constituent and for that useful life mileage.

(iii) For the SFTP composite standard of NMHC+NO<sub>x</sub>, the measured results of NMHC and NO<sub>x</sub> must each be adjusted by their corresponding deterioration factors before the composite NMHC+NO<sub>x</sub> certification level is calculated. Where the applicable FTP exhaust hydrocarbon emission standard is an NMOG standard, the applicable NMOG deterioration factor must be used in place of the NMHC deterioration factor, unless otherwise approved by the Administrator.

## § 86.1842-01

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(2) If the durability demonstration procedure used by the manufacturer under the provisions of § 86.1823, § 86.1824, or § 86.1825, as applicable, requires testing of the EDV with aged emission components, the official results of that testing determined under the provisions of § 86.1835-01(c) shall be rounded to the same level of precision as the standard for each regulated constituent at full and intermediate useful life, as appropriate. This rounded emission value is the certification level for that emission constituent at that useful life mileage.

(3) Compliance with full useful life CO<sub>2</sub> exhaust emission standards shall be demonstrated at certification by the certification levels on the FTP and HFET tests for carbon-related exhaust emissions determined according to § 600.113 of this chapter.

(4) The rounding required in paragraph (a) of this section shall be conducted in accordance with the provisions of § 86.1837-01.

(b) To be considered in compliance with the standards for the purposes of certification, the certification levels for the test vehicle calculated in paragraph (a) of this section shall be less than or equal to the standards for all emission constituents to which the test group is subject, at both full and intermediate useful life as appropriate for that test group.

(c) Every test vehicle of a test group must comply with all applicable exhaust emission standards before that test group may be certified.

(d) Every test vehicle of an evaporative/refueling family must comply with all applicable evaporative and/or refueling emission standards before that family may be certified.

(e) Unless otherwise approved by the Administrator, manufacturers must not use Reactivity Adjustment Factors (RAFs) in their calculation of the certification level of any pollutant for any vehicle except for LDVs and LLDTs participating in the National Low Emission Vehicle (NLEV) program described in subpart R of this part, re-

gardless of the fuel used in the test vehicle.

[64 FR 23925, May 4, 1999, as amended at 65 FR 6864, Feb. 10, 2000; 66 FR 19310, Apr. 13, 2001; 71 FR 2836, Jan. 17, 2006; 75 FR 25690, May 7, 2010; 76 FR 39522, July 6, 2011]

### § 86.1842-01 Addition of a vehicle after certification; and changes to a vehicle covered by certification.

(a) *Addition of a car line after certification.* (1) If a manufacturer proposes to add to its product line a new car line of the same test group as vehicles previously certified but which was not described in the application for certification when the test vehicle(s) representing other vehicles of that combination was certified, it shall notify the Administrator. This notification shall include a full description of the vehicle to be added.

(2) The manufacturer shall perform such tests on the test vehicle(s) representing the vehicle to be added which would have been required if the vehicle had been included in the original application for certification.

(3) If, after a review of the test reports and data submitted by the manufacturer, and data derived from any testing conducted under § 86.1835-01, the Administrator determines that the test vehicle(s) or test engine(s) meets all applicable standards, the appropriate certificate will be amended accordingly. If the Administrator determines that the test vehicle(s) does not meet applicable standards, she/he will proceed under § 86.1850-01.

(b) *Changes to the configuration of vehicles covered by a Certificate of Conformity.* (1) A manufacturer will notify the Administrator concurrently with (or in advance of) any change or addition in production vehicles which creates a new vehicle configuration within the car lines covered in a certified test group, giving a full description of the change. Such a change is referred to as a running change. Upon notification, the manufacturer may begin production of the running change if the manufacturer determines that following the change all affected vehicles will still meet the applicable emission standards.

(i) Such notification shall include a full description of the addition or